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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,953	10/03/2000	Hiroshi Kubota	320727.50401.	7343
759	90 09/04/2003			
KATTEN MUCHIN ZAVIS			EXAMINER	
525 West Monro Suite 600	oe Street		TON, THAIAN N	
Chicago, IL 60	661-3693		ART UNIT PAPER NUMBER	
			1632	20
			DATE MAILED: 09/04/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

- 4.70	Application No.	Applicant(s)	
Advisory Action	09/678,953	KUBOTA ET AL.	
Advisory Action	Examiner	Art Unit	
	Thái-An N. Ton	1632	
The MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED FAILS TO PLACE THIS APP Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (1 condition for allowance; (2) a timely filed Notice of Appea Examination (RCE) in compliance with 37 CFR 1.114.) a timely filed amendment which	ation. A proper repl n places the applica	ition in
PERIOD FOR RE	EPLY [check either a) or b)]		
a) The period for reply expires 3 months from the mailing date			
b) The period for reply expires on: (1) the mailing date of this a no event, however, will the statutory period for reply expire ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).	later than SIX MONTHS from the mailing S FILED WITHIN TWO MONTHS OF TH	g date of the final rejecti IE FINAL REJECTION.	on. See MPEP
Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of (2) as set forth in (b) above, if checked. Any reply received by the Offitimely filed, may reduce any earned patent term adjustment. See 37 (of extension and the corresponding amo the shortened statutory period for reply ce later than three months after the mail	unt of the fee. The appropriate the final originally set in the final	ropriate extension Office action: or
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFI			
$2. \boxtimes$ The proposed amendment(s) will not be entered be	ecause:		
(a) 🛛 they raise new issues that would require further	er consideration and/or search (s	see NOTE below);	
(b) they raise the issue of new matter (see Note b	pelow);		
(c) they are not deemed to place the application i issues for appeal; and/or	n better form for appeal by mate	rially reducing or si	mplifying the
(d) they present additional claims without cancel	ng a corresponding number of fi	nally rejected claim	s.
NOTE: See Continuation Sheet.			
3. Applicant's reply has overcome the following rejection	tion(s):		
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	eparate, timely filed	amendment
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: See		dered but does NO	T place the
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY t	o issues which were	e newly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we	c(s) a)⊡ will not be entered or b) ould be rejected is provided belo		and an
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected:			
Claim(s) withdrawn from consideration:			
8. The proposed drawing correction filed on is	a)☐ approved or b)☐ disapp	roved by the Exami	ner.
9. Note the attached Information Disclosure Statemen		•	
10. Other:		DEBORAH CROUCH PRIMARY EXAMINE GROUP 1800-7	l R





Continuation of 2. NOTE: Applicants' Amendment to the claims raises new considerations with regard to 112, 2nd ¶ and search, with the recitation of "single-cell". See Claim 1, for example.

Continuation of 5. does NOT place the application in condition for allowance because: Applicants argue that the claims are not anticipated by Sargiacomo because Sargiacomo does not disclose each and every element of the claims. Applicants argue that Sargiacomo teaches multi-size spherical hepatic units, and that they fail to teach the isolation of single-cell hepatic progenitors, but actually teaches away from single-cell culture methods. Applicants further argue that Sargiacomo does not indicate that bipotent hepati progenitors exist within the cultures as taught by Sargiacomo. See p. 10, 2nd of Applicants' Response. Applicants argue that Sargiacomo performed none of the tests taught by Applicants to identify the presence of the bipotent hepatic progenitor cells and there is no way to know whether such progenitors exist. Applicants argue that it is possible that 1) bipotent hepatic progenitors are present or 2) that they are not present in the teachings of Sargiacomo. Applicants submit that the teachings of Haruna, which are used as evidence that hepatic progenitors are present in fetal human liver, Applicants teach staining in sections of intact liver, not dissociated liver components. Accordingly, Applicants conclude that that application of the Haruna identification methods to the cultures of Sargiacomo would not yield the bipotent hepatic progenitor cells of the present invention.

Note that the amendment to the claims has not been entered. Applicants' arguments have been considered but are not found to be persuasive for reasons of record advanced in the prior Office action, pp. 3-5. Particularly, that the specification teaches the the compositions of bipotent hepatic progenitor cells of the claimed invention were obtained from human fetal livers, and as such, the claimed properties of the cells are inherent to the cells. As Sargiacomo's cells are disclosed to be isolated from human fetal livers, as are those cells claiemd by the Applicant, they would reasonably be expected to have the same physical and biochemical properties.

With regard to the prior rejection under 112, 2nd ¶, with regard to the expression "capable of", the rejection is maintained for reasons of record advanced on pp. 2-3 of the prior Office action. Applicants argue that by amended the claim to recite, "when exposed to differentiation-inducing growth conditions" overcomes the prior rejection. The rejection is maintained because the amendment has not been entered. Furthermore, it is reiterated that the expression "capable of" encompasses things that could (or could not) occur. As such the expression describes a latent characteristic, which is unclear if the characteristic is obtained or even occurs.